



**TITLE: PROCESS FOR TREATING JUICES WITH ACTIVATED OXYGEN**

**A B S T R A C T**

A PROCESS FOR ACHIEVING A 5 LOG REDUCTION (99.9%) IN BACTERIA IN JUICES USING ULTRA VIOLET GENERATED ACTIVATED OXYGEN GAS. THE JUICE IS IN A HOLDING TANK AND THE GAS IS INTRODUCED INTO THE JUICE USING A SPARGING SYSTEM THAT ALLOWS THE GAS TO BE DELIVERED IN 20 TO 60 MICRON SIZE BUBBLES TO ACHIEVE A GREATER CONTACT AREA BETWEEN THE JUICE AND GAS ALLOWING THE ACTIVATED OXYGEN TO REDUCE BACTERIA FAST AND EFFICIENTLY.

**LAWRENCE G. COSTELLO**

**714-633-1598**

**APPLICATION # 09/803,067**

**CONFIRMATION # 7199**

40733430000